



BIRMINGHAM FIRE AND RESCUE SERVICE DEPARTMENT

PRE-FIRE SURVEY

ADDRESS:																									
NAME:																									
Primary Entrance / Division:						Secondary Entrance / Division:																			
Type of Occupancy:	<input type="checkbox"/>	Assembly	<input type="checkbox"/>	Business	<input type="checkbox"/>	Education	<input type="checkbox"/>	Factory	<input type="checkbox"/>	High-Hazard															
	<input type="checkbox"/>	Institution	<input type="checkbox"/>	Mercantile	<input type="checkbox"/>	Residential	<input type="checkbox"/>	Storage	<input type="checkbox"/>	Multi-Occupancy															
FIRE GROUND (Exposures: If a building give height, construction & type of occupancy – A = attached / S = separate + distance)																									
Division A						Division C																			
Division B						Division D																			
No. of Stories:				Build. Const. Type:				<input type="checkbox"/>	I	<input type="checkbox"/>	II	<input type="checkbox"/>	III	<input type="checkbox"/>	IV	<input type="checkbox"/>	V								
Length:			X	Width			=			GPM per division															
WATER SUPPLY – Urban/Suburban Area																									
Fire Hydrant Locations:	Primary:						Size of Main:																		
	Secondary:						Size of Main:																		
	Private:						Size of Main:																		
Private Area Coverage																									
Water Tank Capacity:																									
Hydrant Locations:		Primary:								Secondary:															
BUILDING FIRE PROTECTION SYSTEMS																									
FDC Connections	<input type="checkbox"/>	Sprinkler	<input type="checkbox"/>	Standpipe (STDP.)	<input type="checkbox"/>	Combination Sprinkler/Standpipe (C)	<input type="checkbox"/>	N/A	<input type="checkbox"/>																
FDC Location(s)	<input type="checkbox"/>	Division-A	<input type="checkbox"/>	Division-B	<input type="checkbox"/>	Division-C	<input type="checkbox"/>	Division-D	<input type="checkbox"/>	N/A	<input type="checkbox"/>														
Fire Pump(s)	Division				GPM				N/A				<input type="checkbox"/>												
Sprinkler System:		<input type="checkbox"/>	Wet	<input type="checkbox"/>	Dry	<input type="checkbox"/>	Deluge	<input type="checkbox"/>	Pre-Action	Limited Area (20 SPKR. Heads)		<input type="checkbox"/>	N/A												
<input type="checkbox"/>	Full building	<input type="checkbox"/>	Partial building		If, partial location:		Division				Floor														
OS&Y Valves:		<input type="checkbox"/>	Division-A		<input type="checkbox"/>	Division-B		<input type="checkbox"/>	Division-C		<input type="checkbox"/>	Division-D													
Standpipe (STDP) & Hose System:		<input type="checkbox"/>	Class I		<input type="checkbox"/>	Class II		<input type="checkbox"/>	Class III		<input type="checkbox"/>	N/A													
Standpipe Riser & Hose Connections:		Stair				Stair				Stair				Corridor				Corridor				Rack			
STDP Riser Isolation Valves:		Stair				Division				Stair				Division				Other				Division			
OS&Y Valves:		<input type="checkbox"/>	Division-A		<input type="checkbox"/>	Division-B		<input type="checkbox"/>	Division-C		<input type="checkbox"/>	Division-D													
Chemical Extinguishing Systems:												<input type="checkbox"/>	Clean Agent	<input type="checkbox"/>	CO ₂	<input type="checkbox"/>	Dry Chemical	<input type="checkbox"/>	Halon	<input type="checkbox"/>	Wet Chem.	<input type="checkbox"/>	N/A		
Division						Note																			
Fire Alarm System Main Panel Location:												Division					Note					<input type="checkbox"/>	N/A		
Remote FAS sub-panel(s):		Division					Note					Division					Note					<input type="checkbox"/>	N/A		
Fire Wall(s)		Division					Note					Division					Note					<input type="checkbox"/>	N/A		
Fire Partition(s):		Division					Note					Division					Note					<input type="checkbox"/>	N/A		

LIFE SAFETY																																																						
Occupancy Load:										<input type="checkbox"/> Low					<input type="checkbox"/> Moderate					<input type="checkbox"/> High																																		
Stair(s)		<input type="checkbox"/>	Open		<input type="checkbox"/>	Enclosed		<input type="checkbox"/>	Side-A		<input type="checkbox"/>	Side-B		<input type="checkbox"/>	Side-C		<input type="checkbox"/>	Side-D		<input type="checkbox"/>	Center Core		<input type="checkbox"/>	Pressurized																														
Exterior fire escape / stair:					<input type="checkbox"/>	Division-A					<input type="checkbox"/>	Division-B					<input type="checkbox"/>	Division-C					<input type="checkbox"/>	Division-D					<input type="checkbox"/>	N/A																								
Roof access off stair										Below grade off stair										Access stair level																																		
Person(s) with Disability Location:																									Area(s) of Rescue Assistance:																													
BUILDING DATA																																																						
Knox box location:																				Side:										<input type="checkbox"/> N/A																								
Roofing Structural Members:					<input type="checkbox"/>	Truss					<input type="checkbox"/>	Metal					<input type="checkbox"/>	Wood					<input type="checkbox"/>	Light					<input type="checkbox"/>	Heavyweight					<input type="checkbox"/>	Cold-formed galvanized steel																		
<input type="checkbox"/>	Poured concrete/Re-bar					<input type="checkbox"/>	Solid wood rafter					<input type="checkbox"/>	Wooden "T" beams					<input type="checkbox"/>	Steel "T" beams																																			
Attic/cockloft access:					<input type="checkbox"/>	Top floor (corridor area or interior room)										Location															<input type="checkbox"/> N/A																							
Roof vent(s):					<input type="checkbox"/>	Automatic					<input type="checkbox"/>	Manual					Location															<input type="checkbox"/> N/A																						
Roof Covering:					<input type="checkbox"/>	Shakes					<input type="checkbox"/>	Metal					<input type="checkbox"/>	Composition shingles					<input type="checkbox"/>	Tar and gravel					<input type="checkbox"/>	Other																								
Flooring Structural Members:					<input type="checkbox"/>	Truss					<input type="checkbox"/>	Metal					<input type="checkbox"/>	Wood					<input type="checkbox"/>	Light					<input type="checkbox"/>	Heavyweight					<input type="checkbox"/>	Cold-formed galvanized steel																		
<input type="checkbox"/>	Poured concrete/Re-bar					<input type="checkbox"/>	Solid wood rafter					<input type="checkbox"/>	Wooden "T" beams					<input type="checkbox"/>	Steel "T" beams																																			
Floor Decking:					<input type="checkbox"/>	Concrete					<input type="checkbox"/>	(pre-cast)					<input type="checkbox"/>	poured					<input type="checkbox"/>	Wood					<input type="checkbox"/>	(plank)					<input type="checkbox"/>	plywood					<input type="checkbox"/>	composite												
Basement:					<input type="checkbox"/>	Full dimensions of building										<input type="checkbox"/>	Partial					If partial, Side															<input type="checkbox"/> N/A																	
Basement Access:					<input type="checkbox"/>	Interior:					Side										<input type="checkbox"/>	Exterior:					Side															<input type="checkbox"/> N/A												
Crawl Space Access					<input type="checkbox"/>	Interior:					Side										<input type="checkbox"/>	Exterior:					Side															<input type="checkbox"/> N/A												
Elevator Banks:					Elevator key location:																																																	
Elevator No.																																																						
Floor Served																																																						
Elevator Mach. Rm. Floors																																																						
Heating System:					<input type="checkbox"/>	Electric					<input type="checkbox"/>	Gas					<input type="checkbox"/>	Oil					<input type="checkbox"/>	Combination gas/oil					<input type="checkbox"/>	Other:																								
Emergency Shut-Off:					Division#										Side										Roof Level										Side																			
Location:					<input type="checkbox"/>	Within room										<input type="checkbox"/>	Area					<input type="checkbox"/>	On-unit					Side:																										
Fuel tank location:					<input type="checkbox"/>	Above ground					<input type="checkbox"/>	Below ground					Division										Side										Fuel tank capacity:										<input type="checkbox"/> N/A							
HVAC Controls:					Location																									<input type="checkbox"/> N/A																								
Smoke Management System:					Purge:															<input type="checkbox"/>	Automatic					<input type="checkbox"/>	Manual					<input type="checkbox"/> N/A																						
Air in-take locations:					Location																									<input type="checkbox"/> N/A																								
Mechanical Equipment Rm. (MER)					Location																									<input type="checkbox"/> N/A																								
Utility Main Shut-offs:					Emergency Generator:															Fuel Type															<input type="checkbox"/> N/A																			
ELECTRIC					Division															LP/GAS															Division															<input type="checkbox"/> N/A				
WATER					Division															NATURAL GAS															Division															<input type="checkbox"/> N/A				
HAZMAT																																																						
MSDSs location:																				<input type="checkbox"/>	Level "C" (low)					<input type="checkbox"/>	Level "B" (moderate)					<input type="checkbox"/>	Level "A" (high)																					
Right To Know facility:										<input type="checkbox"/>	Yes					<input type="checkbox"/>	No					SARA facility:										<input type="checkbox"/>	Yes					<input type="checkbox"/>	No															
Hazmat locations:					<input type="checkbox"/>	Interior:					Division					Note										Division					Note																							
					<input type="checkbox"/>	Exterior:					Division					Note										Division					Note																							
EMERGENCY CONTACT INFORMATION																																																						
Emergency Contact Person(s)					Name										Business Telephone										Mobile Phone																													
Property Manager					() -										() -										() -																													
Maintenance Supervisor					() -										() -										() -																													
Alternate Contact 1					() -										() -										() -																													
Date:					/ /					Company #:					Shift					Officer:																																		

PRE-INCIDENT PLAN / BUILDING INFORMATION CARD - Detailed Information	
No. of stories: a whole number represents the number of stories with a <u>flat roof</u> , a whole number plus a half (1/2) number indicates the number of stories with a <u>sloping/ pitch roof</u> . If all four sides of the building do not have the same equal number of stories, indicate the sides of the building that have different division levels (i.e. <u>side A</u> (3)/ <u>side C</u> (4)).	
Building Construction Types:	
I.	Fire-resistive: Structural members, walls, columns, beams, and divisions are fire rates 2-4 hours with non-combustible materials.
II.	Non-combustible: Metal frame, metal-clad, concrete-block with unprotected metal trust joist.
III.	Ordinary /Combustible: Exterior bearing walls are non-combustible, while the interior framing, roof and divisions are constructed of wood or unprotected steel.
IV.	Wood Frame: Balloon (vertical openings between exterior wall studs from basement level to attic) or platform construction (floor joist and assembly are placed ontop of the exterior bearing wall studs).
L _____ x W _____ = the needed fire flow (GPM) per (div) floor. -First, multiply LxW and divide by 3. to get the total GPM per (div) floor involvement (i.e. 100 feet x 30 feet = 3000square feet then divide by 3 to get the total GPM per floor=1000GPM).	
<ul style="list-style-type: none"> • If less than a total floor, reduce accordingly, (i.e. 25% of the fire floor involved=250 GPM) • If more than one floor, increase the fire flow accordingly. • For each exposure add 50 % of the 100% involvement figure. 	
Exposures: Describe the exposures to the 4 sides of the building. If the side is a structure, give type of occupancy, height, and whether the building is attached or separated by circling A, if attached building or S, if a separated building + distance away:	
<u>Side A-</u> Hoboken Avenue	<u>Side C-</u> vacant lot
<u>Side B-</u> garage/1 story- A	<u>Side D-</u> multi-family/3 stories- S + 20 ft.
Fire Protection System:	
Standpipe Classification:	
2 ½” thread (firefighter use)	
1 ½” thread (occupant use)	
Combination 2 1/4 thread with a 1 ½” reducer cap (firefighter/occupant use)	
Sprinkler System:	
<ul style="list-style-type: none"> • Wet Chemical: (potassium acetate, carbonate, or citrate) extinguishes the fire by forming a soapy foam blanket over the burning oil and by cooling the oil below its ignition temperature. Generally class A and K fires only. • Clean Agent: displaces oxygen (CO2 or inert gases), removes heat from the combustion zone (Halotron, FE-36) or inhibits chemical chain reaction (Halon). 	
They are labeled clean agents because they do not leave any residue after discharge which is ideal for sensitive electronics and documents.	
LIFE SAFETY	
Occupancy Load:	
Low - the number of occupants in the structure during normal use can be evacuated safely with first alarm personnel. (0-10 occupants)	
Moderate - the number of occupants in the structure during normal use can be evacuated safely with first and second alarm personnel and assistance from law enforcement. (11-30 occupants)	
High - the number of occupants in the structure during normal use would require multiple alarms and law enforcement assistance for evacuation. (31 or more occupants)	
Hazardous Materials:	
<ul style="list-style-type: none"> • Right to Know (RTK) and/or Superfund Amendments and Reauthorization Act (SARA) facility. • Rank HAZMAT levels A, B, or C, so that they are compatible with standard hazardous materials incidents. • Other: List small hazardous materials quantities on premises that are not covered by RTK or SARA (i.e. building maintenance shop-flammable/combustible liquids) . If asbestos is present verify with local HAZMAT team or Building Dept. 	